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9.01: Advanced Manufacturing

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

Advanced Manufacturing is "a family of activities that (a) depend on the use and coordination of information, automation, computation, software, sensing, and networking, and/or (b) make use of cutting edge materials and emerging capabilities enabled by the physical and biological sciences, for example nanotechnology, chemistry, and biology. This involves both new ways to manufacture existing pro ...

SBIR National Institute of Standards and TechnologyDepartment of Commerce

2. 9.02: Climate Change and Clean Energy

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

Implementation of renewable energy and climate change related policies around the globe will require access to accurate, internationally recognized measurements and standards. These will be critical for both policy-making purposes as well as evaluating the impact of mitigation efforts. Such capabilities will be equally important for assessing the impact of energy and climate change policies on t ...

SBIR National Institute of Standards and TechnologyDepartment of Commerce

3. 9.03: Cybersecurity

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

Recognizing that the national and economic security of the United States depends on the reliable functioning of critical infrastructure, the President issued Executive Order 13636, Improving Critical Infrastructure Cybersecurity, in February 2013. It directed NIST to work with stakeholders to develop a voluntary framework – based on existing standards, guidelines, and practices - for reducing cy ...

SBIR National Institute of Standards and TechnologyDepartment of Commerce

4. 9.04: Health Care and Bioscience

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

New medical diagnostic tests, improving the quality and cost-effectiveness of health care electronic records, reference materials for laboratory test methods, faster screening of promising vaccines, these are a few of the many areas where National Institute of Standards and Technology (NIST) research serves the needs of the bioscience and health care community. NIST collaborates extensively with o ...

SBIR National Institute of Standards and TechnologyDepartment of Commerce

5. 9.05: Technology Transfer

Published on SBIR.gov (https://www.sbir.gov)

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

This is the main research area, please review subtopics for a better description of available funding topics.

SBIR National Institute of Standards and TechnologyDepartment of Commerce

6. H-SB015.1-001: DNA and Latent Fingerprint Collection from Same Sample

Release Date: 12-03-2014Open Date: 12-17-2014Due Date: 01-21-2015Close Date: 01-21-2015

OBJECTIVE: Develop a method for latent print work and DNA analysis from the same sample while optimizing DNA extraction protocol for fingerprints deposited on evidentiary materials used for human identification. DESCRIPTION: Forensic evidence collection is an essential tool for acquiring information for law enforcement investigations and latent fingerprints are the main piece of evidence to inve ...

SBIR Department of Homeland Security

7. H-SB015.1-002: Low-cost, Disposable, Tamper-Proof Bolt Seal

Release Date: 12-03-2014Open Date: 12-17-2014Due Date: 01-21-2015Close Date: 01-21-2015

OBJECTIVE: Develop, prototype, and demonstrate a low-cost electronic reusable and/or disposable, tamper-proof cargo container/conveyance bolt seal for the maritime and air cargo environments. DESCRIPTION: The current generation of bolt seals, despite being ISO-17712-2013 compliant, provides only limited protection from tampering and illicit entry into the container or conveyance. They can be def ...

SBIR Department of Homeland Security

8. H-SB015.1-003: Enhanced Distributed Denial of Service Defense

Release Date: 12-03-2014Open Date: 12-17-2014Due Date: 01-21-2015Close Date: 01-21-2015

OBJECTIVE: Develop tools, techniques, and polices that mitigate the impact of distributed denial of service (DDoS) attacks. DESCRIPTION: Distributed Denial of Service (DDoS) attacks are used to render key resources unavailable. For example, a classic DDoS attack might disturb a financial institution's website, and temporarily block a consumer's ability to conduct online banking. A mo ...

SBIR Department of Homeland Security

9. H-SB015.1-004: Privacy Protecting Analytics for the Internet of Things

Release Date: 12-03-2014Open Date: 12-17-2014Due Date: 01-21-2015Close Date: 01-21-2015

Published on SBIR.gov (https://www.sbir.gov)

OBJECTIVE: Develop and commercialize analytic capabilities and systems to characterize information from large collections of static and mobile sensors while protecting the privacy of individuals. DESCRIPTION: With the rapid proliferation of sensors, embedded systems, and big data analytics come a host of opportunities for improving safety and security services for the public, critical infrastruc ...

SBIR Department of Homeland Security

10. H-SB015.1-005: A Wearable Communications Hub Designed to Streamline and Improve First Responder Communication Capabilities

Release Date: 12-03-2014Open Date: 12-17-2014Due Date: 01-21-2015Close Date: 01-21-2015

OBJECTIVE: Develop a high-level, scalable next-generation architecture and prototype for an intelligent communications interface device (also referred to as a communications hub) that serves to interconnect wearable technologies (e.g., video camera, sensors, heads-up displays) and voice communication tools to an array of radio communication devices carried by a first responder. DESCRIPTION: Toda ...

SBIR Department of Homeland Security

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